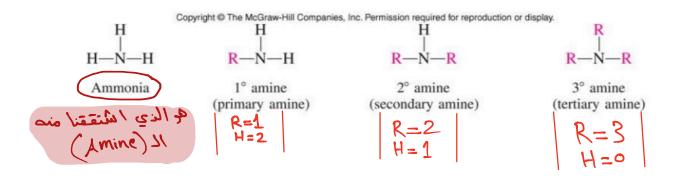


Classification of Amines



Physical Properties

1- Amines form hydrogen bonds but not as strongly as alcohols.

2- Nitrogen is less electronegative than explen.

3- Tertiary amines connot hydrogen bond to each other.

R

Where is no hydrogen bond

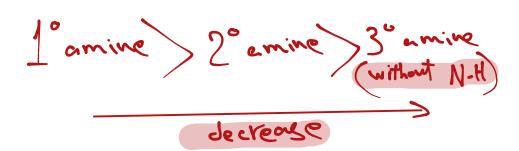
U - lower M.W soluble in water.

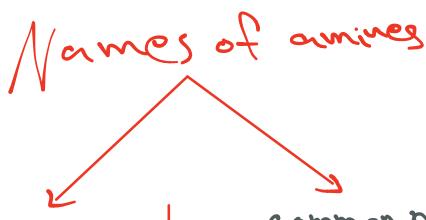
Arrangement for high boiling point of organic:

Carboxylic alcohols amines esters ketmes eldhydes ethers hydrocarbons alkene acids

decrease

High boilig point among amines (classification)





IUPAC:

- longest chain of carbon containing with amine group.

- Naming a brance then the parent with suffix

R-Caramine
"
without some"

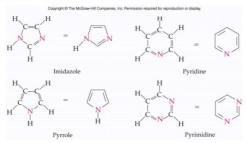
N-method methorisms

CH₃-NH-CH₃ CH₃—N—CH₃ CH₃-NH₂ Trimethylamine Methylamine Dimethylamine CH₃CH₂—NH₂ CH₃CH₂—NH—CH₃ Ethylmethylamine Isopropylamine

Aromatic & Heterocyclic Amines Memorise.

- · Heterocyclic amines are:
 - Cyclic compounds
 - Have at least one N in the ring
 - MANY are physiologically active and many are critical in biochemistry





-R-N: (majer) (Vikhmaniam)

(auine) (majer) (Vikhmaniam)

Addition of amines